AMENDMENTS TO THE CLAIMS

Docket No.: 110313.138US2

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1-4. (Canceled)
- 5. (Currently amended) An isolated nucleic acid encoding a polypeptide having at least 95% amino acid sequence identity with a polypeptide selected from the group consisting of:
 - (a) a human or mouse CatSper3 protein;
 - (b) at least a transmembrane domain of a human or mouse CatSper3 protein;
 - (c) at least an extracellular loop of a human or mouse CatSper3 protein; and
 - (d) at least a pore region of a human or mouse CatSper3 protein; wherein said CatSper3 protein is encoded by SEQ ID NO: 1 or SEQ ID NO: 3.

6-74. (Canceled)